Notice of Allowability	Application No.	Applicant(s)
	10/790,764	TAKAURA ET AL.
	Examiner	Art Unit
	Tu-Tu Ho	2818
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>Amendment filed 11/28/2005</u> .		
2. The allowed claim(s) is/are 1,2 and 4-17.		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 08), 7. ☑ Examiner's Amendr	e

DETAILED ACTION

1. Applicant's Amendment filed 11/28/2005 including drawings, which have been approved, has been reviewed and placed of record in the file.

Election/Restrictions

2. Claims 6-9 and 16-17 depend on an allowable claim and include all limitations of the allowable claim. The claims previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 6-9 and 16-17 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in the Office action mailed on 06/09/2005 is hereby withdrawn.

Allowable Subject Matter

3. Claims 1-2 and 4-17 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or render obvious a semiconductor integrated circuit device having a plurality of memory cells formed on a semiconductor substrate, each made up by electrically connecting a resistor element in series with a field effect transistor (FET) with all exclusive limitations as recited in claims 1, 2, and 4, comprising a plurality of first electrodes each connected to the FET which is included in a corresponding one of the plurality of memory cells, a stacked layer film

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formed of a phase change material layer and a second electrode, the resistor element being part of the stacked layer film, a surface area of each of the plurality of first electrodes being smaller than a surface area of the stacked layer film, a phase change region formed in a contact part between one of the plurality of first electrodes and the stacked layer film; the phase change material layer either: made of one phase change material layer of plural phase change material layers with resistance values changing by heat treatments, or: made of one phase change material layer or plural phase change material layers with resistance values changing by heating treatments; the stacked layer film including the phase change material layer made of one phase change material layer of plural phase change material layers being connected to the plurality of first electrodes in common, and the stacked layer film including the phase change material layer made of one phase change material layer or plural phase change material layers formed on a conductive layer serving as a bit line of the memory cells through the intermediary of an insulation film so as to be connected to the plurality of first electrodes in common.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tu-Tu Ho

December 05, 2005